ABSTRACT

An electrical distribution board that stores terminals of a signal cable connected to a communication network and an electrical power cable connected to an electrical distribution cable, the electrical distribution board comprising: an in building electrical distribution breaker inserted between the electrical power cable and the in building distribution cable; a gateway that interfaces the communication network with the in-building network; and a plurality of optical repeaters, each having a bi-directional conversion function between an electrical signal and an optical signal between an electrical signal input/output terminal and an optical signal input/output terminal, and having an electrical signal input/output terminal that is connected to an electrical signal input/output terminal for in building network connection of the gateway, wherein the optical signal input/output terminal is connected to an optical fiber cable of the inbuilding network. In addition, junction boxes, outlet boxes, plugs with electrical codes, outlet box terminal boards, table taps and the like are prepared to form an in-building network. In-building equipment can be connected to the outlet boxes and the table taps.